

Fig. 1A

SUS1	SEQ ID NO: 2	ENGIL <u>RR</u> KWISRFDVW	native
SUS2	SEQ ID NO: 3	ENGIV <u>RR</u> KWISRFEVW	native
SS2	SEQ ID NO: 10	GIV <u>RR</u> KWISRFEVWPYL KK	active
SS11	SEQ ID NO: 11	ILRVPFRTENGIV <u>RR</u> K (NH ₂)	inactive
SS12	SEQ ID NO: 12	GIV <u>RR</u> KWISRFEVWPYL (NH ₂)	active
SS15	SEQ ID NO: 13	GIV <u>RR</u> K A ISRFEV A PYL (NH ₂)	less active
SS16	SEQ ID NO: 14	SRFEVWPYL (NH ₂)	less active
SP3	SEQ ID NO: 18	^N RR ISSVE ^N ^N DKK (NH ₂)	inactive
NR11	SEQ ID NO: 15	GPTL <u>RR</u> TASTAFMNTTS KK	inactive
SP26	SEQ ID NO: 16	GRM <u>RR</u> IATVEM KK	inactive
SS1	SEQ ID NO: 9	GDRVLSRLHSVRERIGK	inactive
ACTIN	SEQ ID NO: 19	EHGIVTNWDDMEKIWHHTFY	consensus

Double basic cluster: black box; e.g. **KK**

Possible region of specificity: underlined or boxed

Substitutions: bold

Fig. 1B

EN

GIVRK

WI

SRFEVW

PYL

KK

X₄

X₃

X₂

X₁

X₅

X₆

SEQ ID NO.		SEQUENCE
SEQ ID NO:22	X ₁	<div>SRFEVW</div>
SEQ ID NO:17	X ₂ -X ₁	<div>WIS</div> SRFEVW
SEQ ID NO:14	X ₁ -X ₅	SRFEVW <div>PYL</div>
SEQ ID NO:23	X ₂ -X ₁ -X ₅ -X ₆	<div>WIS</div> SRFEVW <div>PYLKK</div>
SEQ ID NO:12	X ₃ -X ₂ -X ₁ -X ₅	<div>GIVRK</div> WISSRFEVWPYL
SEQ ID NO:10	X ₃ -X ₂ -X ₁ -X ₅ -X ₆	GIVRKWISSRFEVWPYL <div>KK</div>
SEQ ID NO:24	X ₄ -X ₃ -X ₂ -X ₁ -X ₅ -X ₆	<div>EN</div> GIVRKWISSRFEVWPYLKK